AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-27 (canceled).

Claim 28 (currently amended): A method for modifying a transformation T that transforms first colorants in a first device dependent colorant space into second colorants in a second device dependent colorant space, the method comprising the steps of:

selecting at least one set of colorants in said first device dependent colorant space;

transforming said set of colorants from said first device dependent colorant space to said second device dependent colorant space using said transformation T to obtain a set of transformed colorants;

having at least one of the transformed set of colorants modified by a user; and

automatically adjusting the transformation T so that a modified colorant set retains at least psychovisual or psychophysical quantity related to the set of transformed colorants.

Claim 29 (previously presented): The method according to claim 28, wherein the step of having at least one of the transformed set of colorants modified by a user includes eliminating at least one undesired colorant from the transformed set of colorants.

Claim 30 (previously presented): The method according to claim 28, wherein said at least one set of colorants is made from primary or secondary colors.

Claim 31 (canceled).

Claim 32 (currently amended): The method according to claim 28, wherein said first device dependent colorant space corresponds with a printing device and said second device dependent colorant space corresponds with a proofing device.

Claim 33 (currently amended): The method according to claim 28, wherein said first device dependent colorant space corresponds with a first CMYK ink set and said second device dependent colorant space corresponds with a second CMYK ink set different from said first CMYK ink set.

Claim 34 (currently amended): The method according to claim 28, further including a step of converting an image represented in said first device dependent colorant space into an image represented in said second device dependent colorant space using said modified colorant set .

Claim 35 (currently amended): A method for modifying a table having input points and output points for transforming, by interpolation techniques, first colorants in a first device dependent colorant space into second colorants in a second device dependent colorant space, the method comprising the steps of:
selecting at least one input point in the table corresponding to a set of colorants in the first device dependent colorant space;
obtaining the output point of the table that corresponds with the input point, the output point representing a transformed set of colorants from the first device dependent colorant space into the second device dependent colorant space;
having the transformed set of colorants modified by a user to obtain a modified set of colorants;
automatically adjusting the transformed set of colorants so that the modified set

of colorants retains at least one psychovisual or psychophysical quantity related to the transformed set of colorants; and

replacing the output point of the table by the modified set of colorants to obtain a modified table.

Claim 36 (previously presented): The method according to claim 35, wherein the step of having the transformed set of colorants modified by a user includes eliminating at least one undesired colorant from the transformed set of colorants.

Claim 37 (previously presented): The method according to claim 35, wherein the set of colorants is made from primary or secondary colors.

Claim 38 (canceled).

Claim 39 (currently amended): The method according to claim 35, wherein the first device dependent colorant space corresponds with a printing device and the second device dependent colorant space corresponds with a proofing device.

Claim 40 (currently amended): The method according to claim 35, wherein the first device dependent colorant space corresponds with a first CMYK ink set and the second device dependent colorant space corresponds with a second CMYK ink set different from the first CMYK ink set.

Claim 41 (currently amended): The method according to claim 35, further including a step of converting an image represented in the first device dependent colorant space into an image represented in the second device dependent colorant space using the modified colorant set table.